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Case Docket No.: 1521/1

Sir:

Transmitted herewith for filing is the patent application of

Inventor MICHAEL BEHAGEN AND IRA DYIR

For A DEVICE FOR REMOTE CONTROL OF A COMPUTER BY RADIO

Enclosed are

- ☒ 1 sheets of format drawing(s).
- ☐ An assignment of the invention to _____
- ☐ A certified copy of a _____ application
- ☐ An associate power of attorney
- ☐ A verified statement to establish small entity status under 37 CFR 1.9 and 37 CFR 1.27
- ☐ Other - _____

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RATE	FEE
	\$ 380
0 x11 =	\$ 0
0 x31 =	\$ 0
	\$ 0
TOTAL	\$ 380

OTHER THAN A SMALL ENTITY	
RATE	FEE
	\$ 790
OR	
OR	x22 = \$
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- ☒ Any filing fees under 37 CFR 1.16 for presentation of extra claims.

Respectfully,

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INDEPENDENT INVENTOR - NEW APPLICATION

Attorney Docket No.: 1521/1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In RE Application of MICHAEL BEHAGEN AND IRA DYIR

Filed Concurrently Herewith

For: A DEVICE FOR REMOTE CONTROL OF A COMPUTER BY RADIO

VERIFIED STATEMENT UNDER 37 CFR 1.27
CLAIMING STATUS AS A SMALL ENTITY

To The Commissioner of Patents and Trademarks

As a below named inventor, I hereby declare that

I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under 35 USC § 41(a) and § 41(b) to the Patent and Trademark Office with regard to the above-entitled invention described in the specification filed herewith.

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any party who could not qualify as a small entity under 37 CFR 1.9(f), namely any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each party, if any, who could qualify as a small entity under 37 CFR 1.9(f) and to whom I have assigned, granted, conveyed or licensed or am under an obligation under contract or law to assign, grant, convey or license, any rights in the invention is listed below:

Full Name (Party 1) : NA

Address : _____

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Full Name (Party 2) : _____

Address : _____

Status : ☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

I acknowledge the duty under 37 CFR 1.28(b) to file, in this application, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the issue fee due after the date on which status as a small entity is no longer appropriate.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application and any patent issuing thereon.

MICHAEL BEHAGEN
Name of Inventor 1

Signature of Inventor

Date 23.11.28

IRA DYIR
Name of Inventor 2

Signature of Inventor

Name of Inventor 3

Signature of Inventor

SECRET - T4426760

APPLICATION FOR PATENT

Inventors: MICHAEL BEHAGEN and IRA DVIR

Title: A DEVICE FOR REMOTE CONTROL OF A COMPUTER
BY RADIO

5

FIELD AND BACKGROUND OF THE INVENTION

The present invention relates to a non-network device for direct remote control of a main computer, and in particular, to a system in which the non-network device features a remote monitor and speakers which directly display the visual and audio display of the main computer, and in which the device features a remote input platform for sending instructions directly to the main computer.

Computers are becoming more popular as home entertainment devices and for the organization and display of information for the consumer. In addition to the functions of earlier computers, computers today can play music stored in a variety of formats, including files stored in the MP3 format on a CD, on magnetic storage medium or on the DVD storage medium, as well as displaying video streams and enabling "chats" to take place through the Internet. In addition, consumers can now perform a variety of tasks "on-line" through the computer, such as order groceries from the local supermarket, which are then delivered to the house of the consumer. These applications have the advantage of being more efficient and of saving the consumer time.

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The computer itself has been sufficiently adapted for the household environment and for the new multi-media tasks, except for portability. The typical household computer is a "desktop" computer which is not very portable. However, certain applications such as playing and managing a musical database or otherwise interacting with the computer from a remote location would be more efficient if the computer could easily be moved from room to room. Thus, desktop computers are not sufficiently portable for such tasks.

A more useful solution would enable the consumer to view the display of the monitor of the computer and to interact with the computer anywhere in the house, as a remote application. The entire computer would not need to be moved about from room to room, but only those portions which are required for controlling the computer and for displaying information on the monitor. Unfortunately, those remote computing solutions which are available only enable partial control, and do not permit portions of the computer to be operated in a fully remote and independent fashion, while still remaining tied to the CPU of the computer but without an additional network connection.

Therefore, there is an unmet need for, and it would be highly useful to have, a device for remote display of information on a monitor and for remotely controlling a computer, as though the user was in physical proximity to the computer.

SUMMARY OF THE INVENTION

The present invention is of a device for remotely displaying the audiovisual information of a main computer and for remotely and fully controlling the functions of the main computer. The device of the present invention includes a remote A/V (audiovisual) display device and a remote input platform. The remote input platform has a radio transmitter and the remote A/V display device has a radio receiver for communicating with the main computer, which is in communication with the corresponding radio transmitter and radio receiver. The main computer sends audiovideo signals through the radio transmitter for displaying information, preferably in the form of a GUI (graphical user interface), on the remote A/V display device. Preferably, the information also includes streaming video and/or graphics. Similarly the main computer receives input instructions by the radio receiver from the user through the remote input platform. Only the main computer has a CPU, although either or both of the remote A/V display device and the remote input platform may have a microprocessor or other processor. Thus, the portions of the computer with which the user directly interacts, the display device and the input platform, can be remote devices, potentially physically separated from the main portion of the main computer (including the CPU).

According to the present invention, there is provided a remote display device for remote interaction by a user with a main computer, the main computer being in communication with a main transmitter and a main

receiver, the main computer featuring a local video card and the main
computer featuring a local input port for receiving input instructions, the
device comprising: (a) a remote display device for receiving display signals
directly from the local video card through the main transmitter and for
5 displaying a display to the user, the display being at least a visual display, the
remote display device featuring a remote receiver for receiving the display
signals, and (b) a remote input platform for receiving input data from the
user and for transmitting the input data directly to the local input port of the
main computer through the main receiver, the remote input platform
10 featuring a remote transmitter for transmitting the input data to the main
receiver; such that the device lacks a CPU (central processing unit) and such
that only the main computer has the CPU.

According to another embodiment of the present invention, there is
provided a system for remote interaction with a user, comprising: (a) a main
15 computer, the main computer featuring a CPU, the main computer
comprising: (i) a main radio transmitter for transmitting radiowaves and a
main receiver for receiving radiowaves; (ii) a plurality of video cards,
including at least a first video card being locally connectable; and (iii) an
operating system capable of controlling the plurality of video cards
20 substantially simultaneously; (b) a remote display device for receiving
display signals from a second of the plurality of video cards through the main
transmitter of the main computer and for displaying a visual display to the
user, the remote display device featuring a remote radiowave receiver for

receiving the display signals, the remote display device lacking a CPU; and
(c) a remote input platform for receiving input data from the user and for
transmitting the input data to the main computer, the remote input platform
featuring a remote radiowave transmitter for transmitting the input data, the
5 remote input platform lacking a CPU.

Hereinafter, the term "computing platform" refers to a particular
computer hardware system or to a particular software operating system.
Examples of such hardware systems include, but are not limited to, personal
computers (PC), palmtops, handheld computers, Macintosh™ computers,
10 mainframes, minicomputers and workstations. Examples of such software
operating systems include, but are not limited to, UNIX, VMS, Linux,
MacOS™, DOS, one of the Windows™ operating systems by Microsoft Inc.
(Seattle, Washington, USA), including Windows NT™, Windows 3.x™ (in
which "x" is a version number, such as "Windows 3.1™"), Windows CE™,
15 Windows95™, and Windows98™, as well as any suitable operating system
for embedded units or palmtop/handheld type computers.

For the present invention, a software application could be written in
substantially any suitable programming language, which could easily be
selected by one of ordinary skill in the art. The programming language
20 chosen should be compatible with the computing platform according to
which the software application is executed. Examples of suitable
programming languages include, but are not limited to, C, C++ and Java.

DESCRIPTION OF THE INVENTION

The invention is herein described, by way of example only, with
reference to the accompanying drawings, wherein:

In addition, the present invention could be implemented as software, firmware or hardware, or as a combination thereof. For any of these implementations, the functional steps performed by the method could be described as a plurality of instructions performed by a data processor.

- 5 Hereinafter, the term "CPU" (central processing unit) includes those portions of the computer which control the remainder of the computer, including the peripherals. As defined herein, the CPU includes the control unit and the arithmetic and logic unit (ALU), as well as other components such as memory and temporary buffers which are required for the operation
- 10 of the control unit and the ALU. Other types of microprocessors or data processors are specifically excluded from the term "CPU" as herein defined.

Hereinafter, the term "speaker" is defined to include any type of device for producing an audible sound stream for a user, including an earphone.

- 15 Hereinafter, a "locally connectable" video card is a video card which is capable of controlling a monitor or other display device which is attached to the computer in which the video card is located, regardless of whether the computer actually has such a monitor or other display device attached.

20 BRIEF DESCRIPTION OF THE DRAWINGS

The invention is herein described, by way of example only, with reference to the accompanying drawings, wherein.

devices, potentially physically separated from the main portion of the main

FIG. 1 is a schematic block diagram illustrating an exemplary device and system according to the present invention.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

5 The present invention is of a device for remotely displaying information from a monitor of a main computer and for remotely and fully controlling the main computer. The device of the present invention includes a remote A/V display device and a remote input platform. The remote input platform has a radio transmitter and the remote A/V display device has a
10 radio receiver for communicating with the main computer, which is in communication with a corresponding radio transmitter and a corresponding radio receiver. The main computer sends audio and video signals through the radio transmitter for displaying information, preferably in the form of a GUI (graphical user interface), on the remote A/V display device.
15 Preferably, the information also includes streaming video and/or graphics, as well as streaming sound.

Similarly, the main computer receives input instructions by the radio receiver from the user through the remote input platform. Only the main computer has a CPU, although either or both of the remote A/V display
20 device and the remote input platform may have a microprocessor or other processor. Thus, the portions of the computer with which the user directly interacts, the A/V display device and the input platform, can be remote

In addition, the present invention could be implemented as software, firmware or hardware, or as a combination thereof. For any of these implementations, the functional steps performed by the method could be described as a plurality of instructions performed by a data processor.

5 Hereinafter, the term "CPU" (central processing unit) includes those

devices, potentially physically separated from the main portion of the main computer (including the CPU).

The principles and operation of the device according to the present invention may be better understood with reference to the drawings and the
5 accompanying description.

Referring now to the drawings, Figure 1 is a schematic block diagram illustrating an exemplary device and system according to the present invention. A system 10 includes a remote interaction device 12 for interaction with the user of a main computer 14. Remote interaction device
10 12 is preferably able to communicate with main computer 14 through radiowave communication. Preferably, remote interaction device 12 receives power through a battery which is optionally chargeable at a charger/base 16.

Remote interaction device 12 features a remote A/V display device 18 preferably for displaying both audio and visual data, although remote A/V
15 display device 18 could optionally display only audio or only visual data. Hereinafter, the term "display" can include both a visual and an audio display. Remote A/V display device 18 preferably includes an ISM band receiver 20 for receiving radiowave communication from main computer 14.
More preferably, all of the radiowave receivers and transmitters of the
20 present invention operate as low-frequency radiowaves, most preferably in the range of from about 2.4 GHz to about 5.8 GHz, as this range does not require a special license in the United States of America. In addition, remote A/V display device 18 preferably also features a video expander 22 for

expanding the compressed video signals for display on a screen **24**. The type of video expander **22** and the type of screen **24** would depend upon the type of remote A/V display device **18** and could easily be selected by one of ordinary skill in the art. Examples of screen **24** include but are not limited to any type of flat screen including a plasma screen or an LCD (liquid crystal display), a CRT (cathode ray tube) monitor, a computer monitor or any other type of video display monitor. Thus, remote A/V display device **18** enables visual data such as a GUI (graphical user interface), other graphics or images, or a video stream, to be displayed to the user.

Optionally and preferably, remote A/V display device **18** includes an audio amplifier **26** and at least one, but preferably two speakers **28** as shown. Also optionally and preferably, remote A/V display device **18** features earphones **30**. The audio data is received by ISM band receiver **20** which is also connected to audio amplifier **26**. Audio amplifier **26** then renders the audio data into an audio stream for an audio display to the user. Thus, these preferred components enable remote A/V display device **18** to play music or to otherwise render an audio stream audible to the user.

In addition, remote interaction device **12** also features a remote input platform **32**. Remote input platform **32** enables information and instructions to be entered by the user. Remote input platform **32** includes an ISM band SP² transmitter **34** for transmitting radiowaves to main computer **14** in order to communicate the information and instructions from the user. As shown, remote input platform **32** optionally and preferably includes a number of

different input components for accepting input from the user. For example, remote input platform 32 optionally and preferably includes a keyboard 36 for entering textual or other character-based input.

Remote input platform 32 optionally and preferably also includes a pointing device 38 such as a mouse, trackball, touchpad, touch-sensitive screen or other pointing device, in order for the user to be able to select a command or other input from the GUI preferably displayed by remote A/V display device 18. Keyboard 36 and pointing device 38 are particularly preferred because these two input devices are typical of most home computers and as such are familiar to the user. Thus, remote A/V display device 18 and remote input platform 32 could be one physical unit or else two physically separated components.

In addition, remote input platform 32 also optionally and preferably includes a joystick port 40, for example for receiving a joystick for playing electronic games. Remote input platform 32 also optionally and preferably includes a microphone 42 for receiving voice-based instructions or for recording the voice of the user on main computer 14, for example.

Thus, remote input platform 32 enables the user to input data, such as information and commands, which are then transmitted by radiowaves through ISM band SP² transmitter 34 to main computer 14. Main computer 14 then sends signals for video display to remote A/V display device 18, which receives these signals through ISM band receiver 20. The components of main computer 14 which enable main computer 14 to both control the

display on remote A/V display device 18 and to respond to data input through remote input platform 32 are as follows.

Main computer 14 preferably includes a video display card 44 which is connected to an A/V compressor 46 for compressing the video data, both of which are preferably located within a main computer box 13. Main computer 14 sends display instructions for displaying video information on remote A/V display device 18 to video display card 44. Video display card 44 then renders the instructions as video display signals suitable for a monitor such as screen 24. The signals are then compressed by A/V compressor 46. After compression, the signals are sent as radiowaves by an ISM band SP² transmitter 48. The transmitted radiowaves are then received by ISM band receiver 20, expanded by video expander 22 and displayed by screen 24 as previously described.

Optionally, main computer 14 could include a sound card 50 for receiving display signals for "displaying" (making audible) audio information on remote A/V display device 18. Sound card 50 would then render these display signals into audio signals suitable for audio amplifier 26. The audio signals would then be passed to ISM band SP² transmitter 48 through a "line out" port 52 on sound card 50.

Main computer 14 also includes a joystick port 54 for receiving input from a joystick; a keyboard port 56 for receiving input from a keyboard such as remote keyboard 36; and a pointing device port 58 for receiving input from a pointing device such as pointing device 38. In addition, sound card

50 preferably includes a "line-in" or microphone port 59. All of these ports receive input through an ISM band receiver 60 as shown, which could be located in charger/base 16 or alternatively could be located at main computer 14.

5 Optionally and preferably, all of these ports also receive input from peripheral devices directly physically attached to main computer 14. Therefore, main computer 14 preferably also includes a keyboard 62, a monitor 64, a joystick 66, a pointing device 68 and a microphone 70 which are local peripheral devices. Thus, these local peripheral devices enable the
10 user to operate main computer 14 locally.

 In order for main computer 14 to be able to receive input data from both sets of peripheral devices, those attached locally such as keyboard 62, and those in remote communication such as remote input platform 32, preferably charger/base 16 also features a switching box 72. Preferably, ISM
15 band receiver 60 is also located at charger/base 16. Switching box 72 receives the input data from ISM band receiver 60, and then sends this data to the correct port on main computer 14, such as keyboard port 56, for example. Conversely, when input data is being received from a local peripheral device, such as keyboard 62 for example, switching box 72 then
20 sends this input data to the correct port on main computer 14, in this case keyboard port 56. Thus, switching box 72 enables both local and remote peripherals to sequentially access main computer 14.

In addition, in order for two different monitors to be controlled by main computer 14, including both local monitor 64 and remote A/V display device 18, preferably main computer 14 also features a second video display card 74. Second video display card 74 receives instructions from main computer 14 for displaying video information, such as a GUI, on local monitor 64. However, in order to accommodate this preferred embodiment of the present invention, main computer 14 must be operated by an operating system which is capable of controlling two monitors by controlling two video cards. An example of such an operating system is Windows 98™.

As its name implies, charger/base 16 also preferably features components for supplying power to remote A/V display device 18 and to remote input platform 32. Preferably, power is supplied to both remote A/V display device 18 and remote input platform 32 through a rechargeable battery 76, although each of remote A/V display device 18 and remote input platform 32 could have a separate battery power source. Charger/base 16 therefore preferably recharges rechargeable battery 76, through an AC/DC power supply 78 and a remote DC charging socket 80. AC/DC power supply 78 receives power from an AC supply 15. Optionally and preferably, a remote charging plug (not shown) is located at remote interaction device 12 for connecting to remote DC charging socket 80 or to an external DC source (not shown). Thus, when battery-operated, remote A/V display device 18 and remote input platform 32 are preferably completely portable, such that neither requires a direct wire connection to an electrical socket.

Therefore, the device of the present invention provides complete interactivity with a main computer at a remote location, without requiring a network card and without a physical wire or cable connection. The interactivity is provided through a remote A/V display device and a remote input platform, both of which lack a CPU. Thus, the main computer controls the actions of the remote A/V display device according to instructions received from the remote input platform.

While the invention has been described with respect to a limited number of embodiments, it will be appreciated that many variations, modifications and other applications of the invention may be made.

2025 RELEASE UNDER E.O. 14176

WHAT IS CLAIMED IS:

1. A remote display device for remote interaction by a user with a main computer, the main computer being in communication with a main transmitter and a main receiver, the main computer featuring a local video card and the main computer featuring a local input port for receiving input instructions, the device comprising:

- (a) a remote display device for receiving display signals directly from the local video card through the main transmitter and for displaying a display to the user, said remote display device featuring a remote receiver for receiving said display signals; and
- (b) a remote input platform for receiving input data from the user and for transmitting said input data directly to the local input port of the main computer through the main receiver, said remote input platform featuring a remote transmitter for transmitting said input data to the main receiver;

such that the device lacks a CPU (central processing unit) and such that only the main computer has said CPU.

2 The device of claim 1, wherein said remote receiver and the main receiver are both radiowave receivers.

3. The device of claim 2, wherein said radiowave receiver receives radiowaves in a range of from about 2.4 GHz to about 5.8 GHz.
4. The device of claim 3, wherein said radiowave receiver is an ISM band receiver.
5. The device of claim 1, wherein said remote transmitter and the main transmitter are both radiowave transmitters.
6. The device of claim 5, wherein said radiowave transmitter transmits radiowaves in a range of from about 2.4 GHz to about 5.8 GHz.
7. The device of claim 6, wherein said radiowave transmitter is an ISM band SP² transmitter.
8. The device of claim 1, wherein said display is at least a visual display, and wherein said remote display device further comprises:
 - (i) a video expander for receiving said display signals from said remote receiver and for expanding said display signals to produce expanded signals; and
 - (ii) a screen for displaying said display signals according to said expanded signals from said video expander.

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9. The device of claim 8, wherein said screen is selected from the group consisting of a plasma screen, a LCD (liquid crystal display) screen and a CRT (cathode ray tube) screen

10. The device of claim 8, wherein said display is at least an audio display and said remote display device further comprises:

- (iii) an audio amplifier for amplifying audio signals from said remote receiver; and
- (iv) a speaker for audibly displaying said audio display to the user according to said audio signals received from said audio amplifier.

11. The device of claim 1, wherein said remote input platform further comprises a remote keyboard and a remote pointing device.

12. The device of claim 11, wherein said remote input platform further comprises a joystick port.

13. The device of claim 12, wherein said remote input platform further comprises a microphone.

14. A system for remote interaction with a user, comprising:

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- (a) a main computer, said main computer featuring a CPU, said main computer comprising:
 - (i) a main radio transmitter for transmitting radiowaves and a main receiver for receiving radiowaves;
 - (ii) a plurality of video cards, including at least a first video card being locally connectable; and
 - (iii) an operating system capable of controlling said plurality of video cards substantially simultaneously;
- (b) a remote display device for receiving display signals from a second of said plurality of video cards through said main transmitter of said main computer and for displaying a visual display to the user, said remote display device featuring a remote radiowave receiver for receiving said display signals, said remote display device lacking a CPU; and
- (c) a remote input platform for receiving input data from the user and for transmitting said input data to said main computer, said remote input platform featuring a remote radiowave transmitter for transmitting said input data, said remote input platform lacking a CPU.

15. The system of claim 14, wherein said main computer further comprises:

- (iv) a local input device; and

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- (v) an input device port for receiving input data from said local input device and from said remote input platform;

and wherein the system further comprises:

- (d) a switching box for switching said input data from said local input device and from said remote input platform to said input device port.

16. The system of claim 15, wherein said main computer features a main radiowave receiver for receiving radiowaves from said remote input platform.

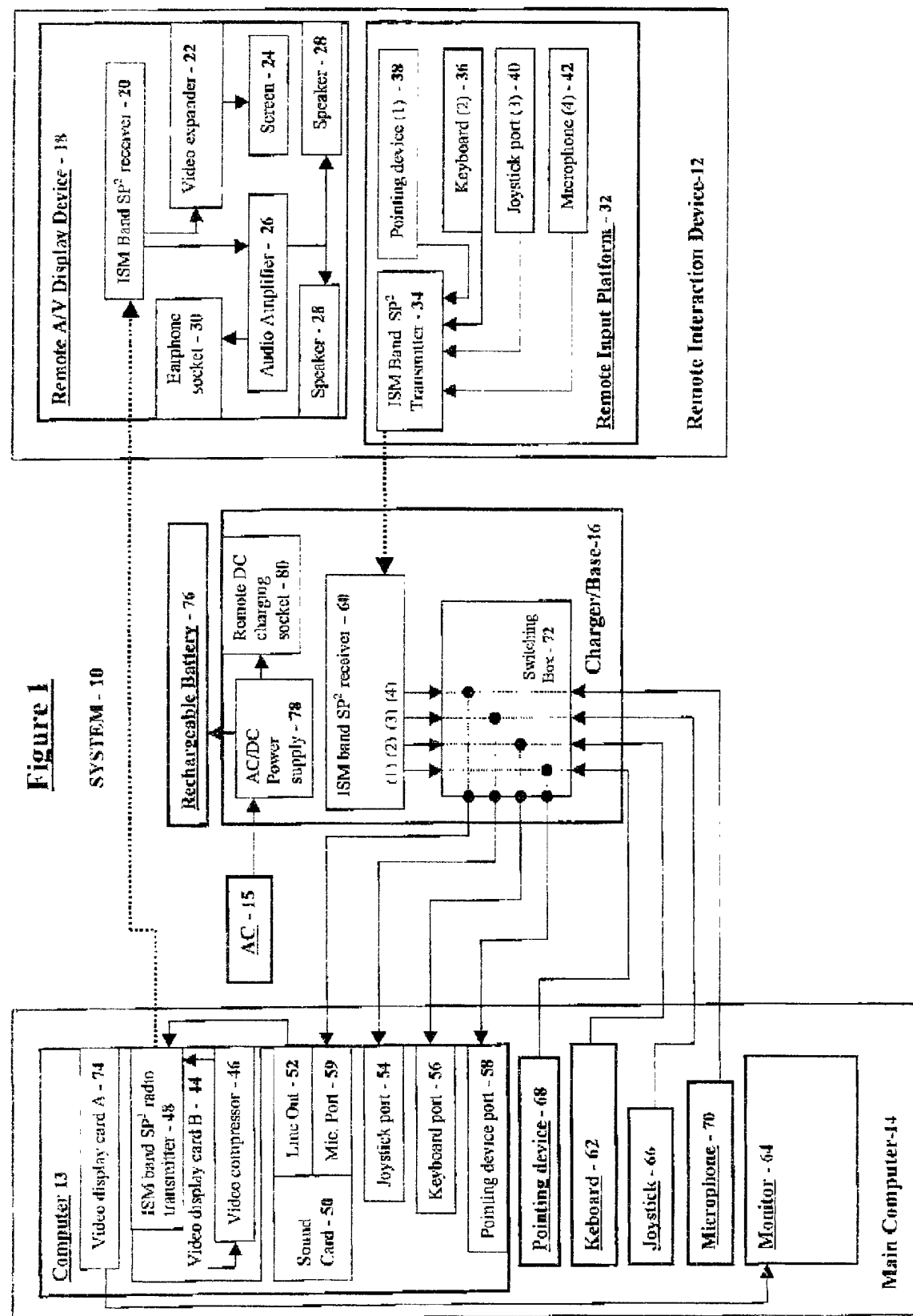
17. The system of claim 15, wherein said switching box features a main radiowave receiver for receiving radiowaves from said remote input platform, said switching box passing said radiowaves to said main computer.

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ABSTRACT

A device for remotely displaying information from a monitor of a main computer and for remotely and fully controlling the main computer. The device of the present invention includes a remote A/V display device and a remote input platform. The remote input platform has a radio transmitter and the remote A/V display device has a radio receiver for communicating with the main computer, which is in communication with a corresponding radio transmitter and a corresponding radio receiver. The main computer sends audio and video signals through the radio transmitter for displaying information, preferably in the form of a GUI (graphical user interface), on the remote A/V display device. Preferably, the information also includes streaming video and/or graphics, as well as streaming sound. Similarly, the main computer receives input instructions by the radio receiver from the user through the remote input platform. Only the main computer has a CPU, although either or both of the remote A/V display device and the remote input platform may have a microprocessor or other processor. Thus, the portions of the computer with which the user directly interacts, the A/V display device and the input platform, can be remote devices, potentially physically separated from the main portion of the main computer (including the CPU).

SECRET



Attorney Docket: 1521/1
page 1 of 2

Combined Declaration For Patent Application and Power of Attorney

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled A DEVICE FOR REMOTE CONTROL OF A COMPUTER BY RADIO, the specification of which (check one) ☒ is attached hereto.

☐ was filed on _____ as Application Serial No. _____ and was amended on _____. I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed	
<u>NA</u>			<input type="checkbox"/>	<input type="checkbox"/>
(number)	(Country)	(Day, Month, Year Filed)	Yes	No
<u> </u>	<u> </u>	<u> </u>	<input type="checkbox"/>	<input type="checkbox"/>
(number)	(Country)	(Day, Month, Year Filed)	Yes	No
<u> </u>	<u> </u>	<u> </u>	<input type="checkbox"/>	<input type="checkbox"/>
(number)	(Country)	(Day, Month, Year Filed)	Yes	No

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States Application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<u>NA</u>		
(Application Serial No.)	(Filing Date)	Status
		(patented, pending, abandoned)
<u> </u>	<u> </u>	<u> </u>
(Application Serial No.)	(Filing Date)	Status
		(patented, pending, abandoned)

I hereby appoint the following attorneys, with full power of substitution, association, and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith.

Mark M. Friedman Registration No. 33,883

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
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Continuation of Combined Declaration For Patent Application and Power of Attorney

I hereby further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statement may jeopardize the validity of the application of any patent issued thereon.

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*FULL NAME OF FIFTH INVENTOR	INVENTOR'S SIGNATURE	DATE
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